

Bin Wang

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40
papers

3,702
citations

23
h-index

42
g-index

42
ext. papers

4,806
ext. citations

10.3
avg, IF

5.67
L-index

#	Paper	IF	Citations
40	A microporous aluminum-based metal-organic framework for high methane, hydrogen, and carbon dioxide storage. <i>Nano Research</i> , 2021 , 14, 507-511	10	24
39	Linker Desymmetrization: Access to a Series of Rare-Earth Tetracarboxylate Frameworks with Eight-Connected Hexanuclear Nodes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2784-2791	16.4	23
38	A three-dimensional metal-organic framework with high performance of dual cation sensing synthesized via single-crystal transformation. <i>New Journal of Chemistry</i> , 2020 , 44, 11829-11834	3.6	5
37	Dual-emissive metal-organic framework: a novel turn-on and ratiometric fluorescent sensor for highly efficient and specific detection of hypochlorite. <i>Dalton Transactions</i> , 2020 , 49, 9680-9687	4.3	13
36	Microporous Hydrogen-Bonded Organic Framework for Highly Efficient Turn-Up Fluorescent Sensing of Aniline. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12478-12485	16.4	73
35	Optimization of the Pore Structures of MOFs for Record High Hydrogen Volumetric Working Capacity. <i>Advanced Materials</i> , 2020 , 32, e1907995	24	48
34	A novel hydrogen-bonded organic framework for the sensing of two representative organic arsenics. <i>Canadian Journal of Chemistry</i> , 2020 , 98, 352-357	0.9	9
33	Sensitive and Selective Detection of Bisphenol Compounds in a Fluorescent Metal-Organic Framework. <i>Sensors and Actuators B: Chemical</i> , 2020 , 314, 128048	8.5	16
32	Two isomeric In(III)-MOFs: unexpected stability difference and selective fluorescence detection of fluoroquinolone antibiotics in water. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 1161-1171	6.8	43
31	Effective adsorption of metronidazole antibiotic from water with a stable Zr(IV)-MOFs: Insights from DFT, kinetics and thermodynamics studies. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103642	6.8	32
30	Pillar-Layered Metal-Organic Frameworks Based on a Hexaprismane [Co6(μ -OH) ₆] Cluster: Structural Modulation and Catalytic Performance in Aerobic Oxidation Reaction. <i>Inorganic Chemistry</i> , 2020 , 59, 11728-11735	5.1	7
29	Design and applications of water-stable metal-organic frameworks: status and challenges. <i>Coordination Chemistry Reviews</i> , 2020 , 423, 213507	23.2	41
28	Hydrogen-Bonded Organic Frameworks as a Tunable Platform for Functional Materials. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14399-14416	16.4	132
27	Broad spectrum detection of veterinary drugs with a highly stable metal-organic framework. <i>Journal of Hazardous Materials</i> , 2020 , 382, 121018	12.8	38
26	A stable zirconium based metal-organic framework for specific recognition of representative polychlorinated dibenzo-p-dioxin molecules. <i>Nature Communications</i> , 2019 , 10, 3861	17.4	98
25	Ligand Rigidification for Enhancing the Stability of Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10283-10293	16.4	97
24	Determination and removal of clenbuterol with a stable fluorescent zirconium(IV)-based metal organic framework. <i>Mikrochimica Acta</i> , 2019 , 186, 454	5.8	23

23	Selective detection of two representative organic arsenic compounds in aqueous medium with metal-organic frameworks. <i>Environmental Science: Nano</i> , 2019 , 6, 2759-2766	7.1	16
22	A novel mesoporous hydrogen-bonded organic framework with high porosity and stability. <i>Chemical Communications</i> , 2019 , 56, 66-69	5.8	33
21	An anionic In(III)-based metal-organic framework with Lewis basic sites for the selective adsorption and separation of organic cationic dyes. <i>Chinese Chemical Letters</i> , 2019 , 30, 234-238	8.1	28
20	The influence of the molecular packing on the room temperature phosphorescence of purely organic luminogens. <i>Nature Communications</i> , 2018 , 9, 840	17.4	509
19	Guest-dependent pressure induced gate-opening effect enables effective separation of propene and propane in a flexible MOF. <i>Chemical Engineering Journal</i> , 2018 , 346, 489-496	14.7	41
18	Stable Zr(IV)-Based Metal-Organic Frameworks with Predesigned Functionalized Ligands for Highly Selective Detection of Fe(III) Ions in Water. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10286-10295	9.5	277
17	A stable porphyrinic metal-organic framework pore-functionalized by high-density carboxylic groups for proton conduction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14525-14529	13	89
16	A Base-Resistant Metalloporphyrin Metal-Organic Framework for C-H Bond Halogenation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 211-217	16.4	190
15	A flexible metal-organic framework with a high density of sulfonic acid sites for proton conduction. <i>Nature Energy</i> , 2017 , 2, 877-883	62.3	377
14	A pillar-layered Cd(II) metal-organic framework for selective detection of organic explosives. <i>Journal of Coordination Chemistry</i> , 2017 , 70, 2541-2550	1.6	2
13	A Copper(II)-Paddlewheel Metal-Organic Framework with Exceptional Hydrolytic Stability and Selective Adsorption and Detection Ability of Aniline in Water. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27027-27035	9.5	69
12	Oriented Nano-Microstructure-Assisted Controllable Fabrication of Metal-Organic Framework Membranes on Nickel Foam. <i>Advanced Materials</i> , 2016 , 28, 2374-81	24	77
11	Different two-dimensional metal-organic frameworks through ligand modification. <i>Journal of Coordination Chemistry</i> , 2016 , 69, 2193-2199	1.6	3
10	Controlling structural topology of metal-organic frameworks with a desymmetric 4-connected ligand through the design of metal-containing nodes. <i>Chinese Chemical Letters</i> , 2016 , 27, 502-506	8.1	18
9	A novel porous anionic metal-organic framework with pillared double-layer structure for selective adsorption of dyes. <i>Journal of Solid State Chemistry</i> , 2016 , 233, 143-149	3.3	20
8	A Base-Resistant Zn -Based Metal-Organic Framework: Synthesis, Structure, Postsynthetic Modification, and Gas Adsorption. <i>ChemPlusChem</i> , 2016 , 81, 864-871	2.8	13
7	Highly Stable Zr(IV)-Based Metal-Organic Frameworks for the Detection and Removal of Antibiotics and Organic Explosives in Water. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6204-16	16.4	963
6	Nanocage containing metal-organic framework constructed from a newly designed low symmetry tetra-pyrazole ligand. <i>Journal of Coordination Chemistry</i> , 2016 , 69, 3242-3249	1.6	1

5	Tetrazolate- μ -azido-copper(II) coordination polymers: tuned synthesis, structure, and magnetic properties. <i>CrystEngComm</i> , 2015 , 17, 4136-4142	3.3	23
4	A high surface area Zr(IV)-based metal-organic framework showing stepwise gas adsorption and selective dye uptake. <i>Journal of Solid State Chemistry</i> , 2015 , 223, 104-108	3.3	37
3	Tuning CO ₂ -selective adsorption over N ₂ and CH ₄ in UiO-67 analogues through ligand functionalization. <i>Inorganic Chemistry</i> , 2014 , 53, 9254-9	5.1	179
2	An antiferromagnetic metal-organic framework with high symmetry octanuclear Mn ₈ (μ -O) ₃ (COO) ₁₂ secondary building units. <i>Journal of Coordination Chemistry</i> , 2014 , 67, 2606-2614	1.6	2
1	A fluorescent 3-D metal-organic framework with unusual tetranuclear zinc secondary building units. <i>Journal of Coordination Chemistry</i> , 2014 , 67, 3484-3491	1.6	12